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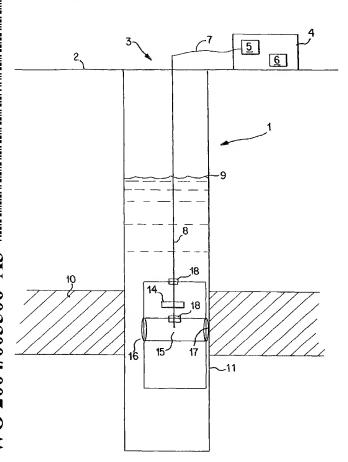
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(54) Title: IN-SITU DETECTION AND ANALYSIS OF COAL BED METHANE FORMATIONS



(57) Abstract: A measuring system for in-situ measurements down a well by a spectrometer (4) is provided. The spectrometer (4) includes a radiation source (5) and a detector (6). A probe is optically connected to the spectrometer (4) and includes an optical pathway (7) for transmission of a radiation from the radiation source (5) and at least a second optical pathway for transmission of a characteristic radiation from a sample to the detector (6). A positioner is provided to position the probe near a side surface (11) of the borehole (3) and to optically couple the optical pathways to the side surface (11), where the probe is traversable up and down the well by way of a guide operatively connected to the probe and to a fixed location at the wellhead. By use of the apparautus and method a concentration of methane or other substance of interest is obtained, and thereby, a potential production of a coal bed methane formation is obtained.

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a		Relevant to claim No.		
Y	US 6,388,251 B1 (PAPANYAN) 14 May 2002, see entire document. 1-17		1-17		
Y	US 4,994,671 A (SAFINYA et al) 19 February 1991, see entire document.		1-17		
Y	US 4,490,845 A (STEINBRUEGGE et al) 25 December 1984, see entire document.		1-17		
Y	US 3,859,851 A (URBANOSKY) 14 January 1975, see entire document.		1-17		
Y	US 2,334,475 A (CLAUDET) 16 November 1943, see entire document.		1-17		
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Further	documents are listed in the continuation of Box C.	See patent family annex.			
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